

ASSOCIATE SANITARY CHEMIST

DEFINITION:

Under general direction to perform professional chemical laboratory analyses and investigations for Regional Water Quality Control Board requirements, Industrial Waste and Hazardous Waste Control, Water Reclamation, special investigations pertaining to resource recovery and Water Pollution Control Facility upgrading, and other special studies of Liquid Waste and Solid Waste programs and perform related work.

DISTINGUISHING CHARACTERISTICS:

This class is distinguished from other laboratory classes in that it is involved in the analyses of sewage and industrial waste, hazardous waste, well water, ocean water, and other chemical analysis associated with special investigations for water reclamation and resource recovery.

EXAMPLES OF DUTIES:

Performs laboratory work in the testing and chemical analysis of sewage including total solids, suspended solids, pH, sulfides, alkalinity, and bio-chemical oxygen demand; performs analyses and tests of sludge for volatile matter; makes field investigations and chemical analyses of industrial and hazardous wastes; investigates sewage odor complaints; performs and calculates complete analyses of water, assists in research and investigation of water reclamation methods; performs biological testing of sewage and water; makes and prepares reports that are submitted to the Regional Water Quality Control Board; and performs other related work in support of Liquid Waste and Solid Waste Activities.

MINIMUM QUALIFICATIONS:

Knowledge of:

- Quantitative and qualitative analytical chemistry.
- Laboratory procedures for analytical techniques, methodology, and the application of instruments to analysis.
- Maintenance, operation and use of equipment and instrumentation employed in analytical laboratory examinations and tests relative to industrial wastes.

General Knowledge of:

- Water reclamation methods.
- Characteristics of domestic, industrial and hazardous waste treatment and disposal methods, practices and requirements.
- Principles of training of subordinate personnel.
- Supervisorial techniques.

Skills and Abilities to:

- Methods and techniques of analytical and scientific calculations and the preparation of records and definitive reports on laboratory finding.

- Basic training.
- Effective communication and interpersonal relations.

EDUCATION/EXPERIENCE:

Education, training and/or experience which clearly demonstrate possession of the knowledge, skills and abilities stated above. An example of qualifying education/experience is:

Completion of college or university study with major work in chemistry, chemical engineering, or a related science, including studies in quantitative and qualitative chemical analysis; and two years of professional experience in analytical chemistry in a laboratory setting including at least one year of experience performing chemical analyses on wastewater, and/or industrial waste.

SPECIAL NOTES, LICENSES, OR REQUIREMENTS:

License:

A valid California driver's license is required at time of appointment.

Working Conditions:

Handling hazardous chemical and raw sewage.